

FIG. 1

Master Server Computer

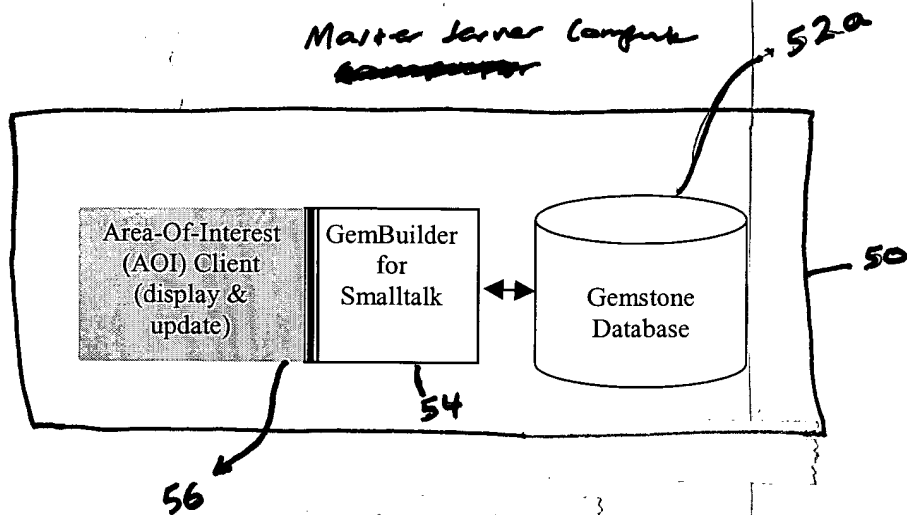
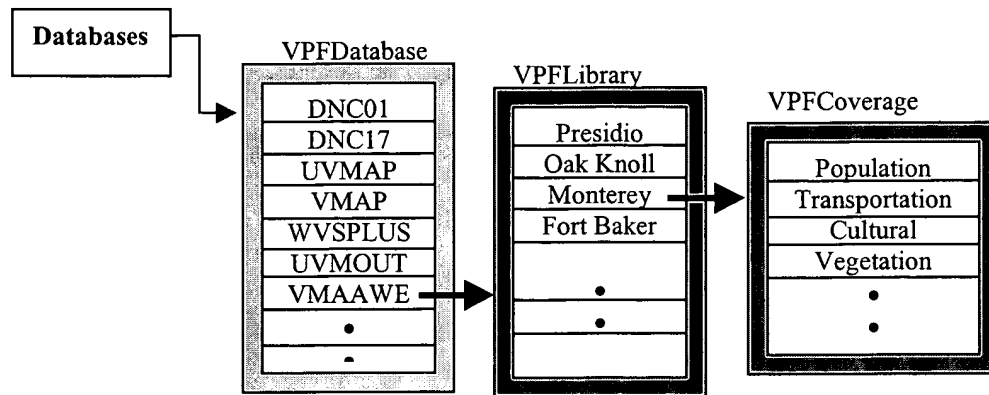


FIG 2

005343-08100



**FIG. 3**

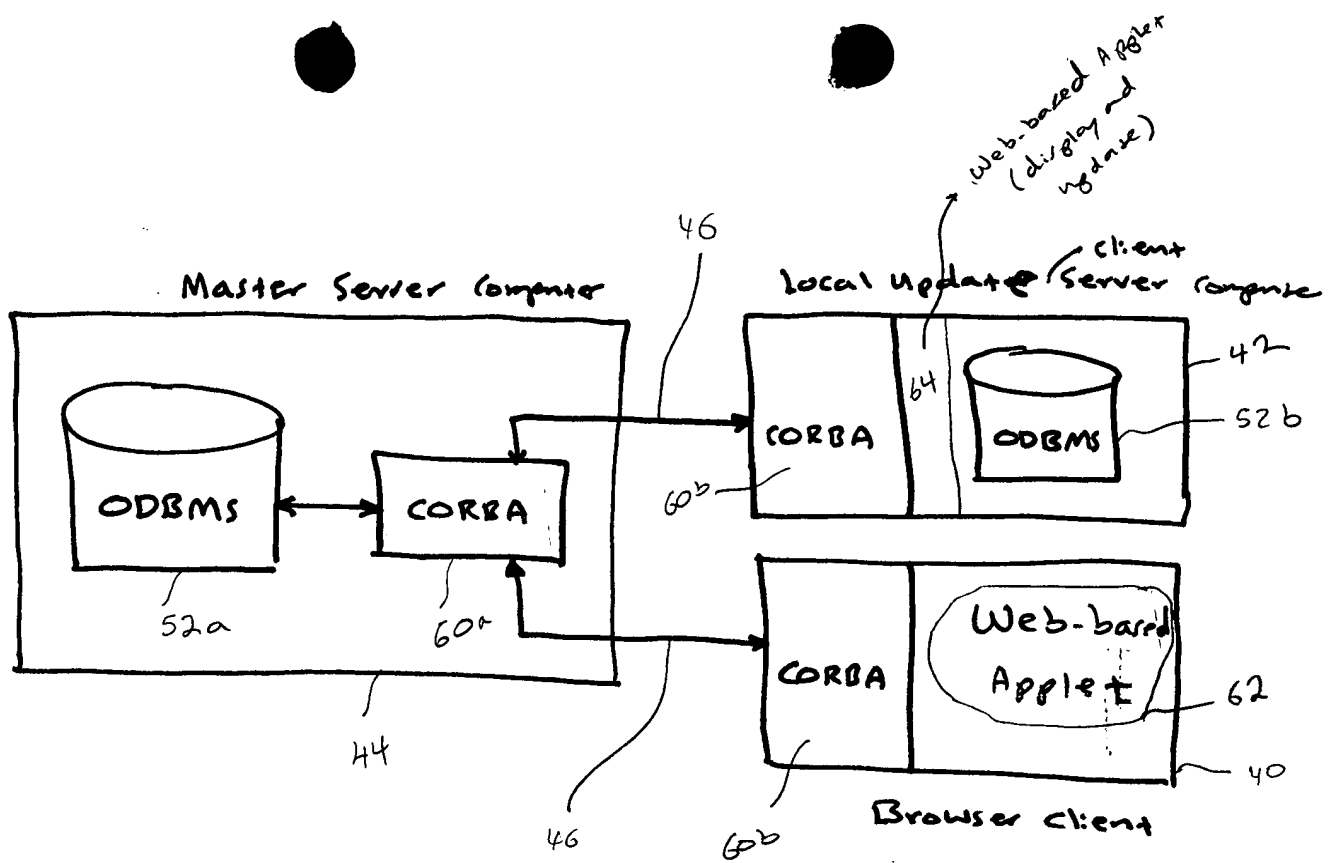


FIG 4A

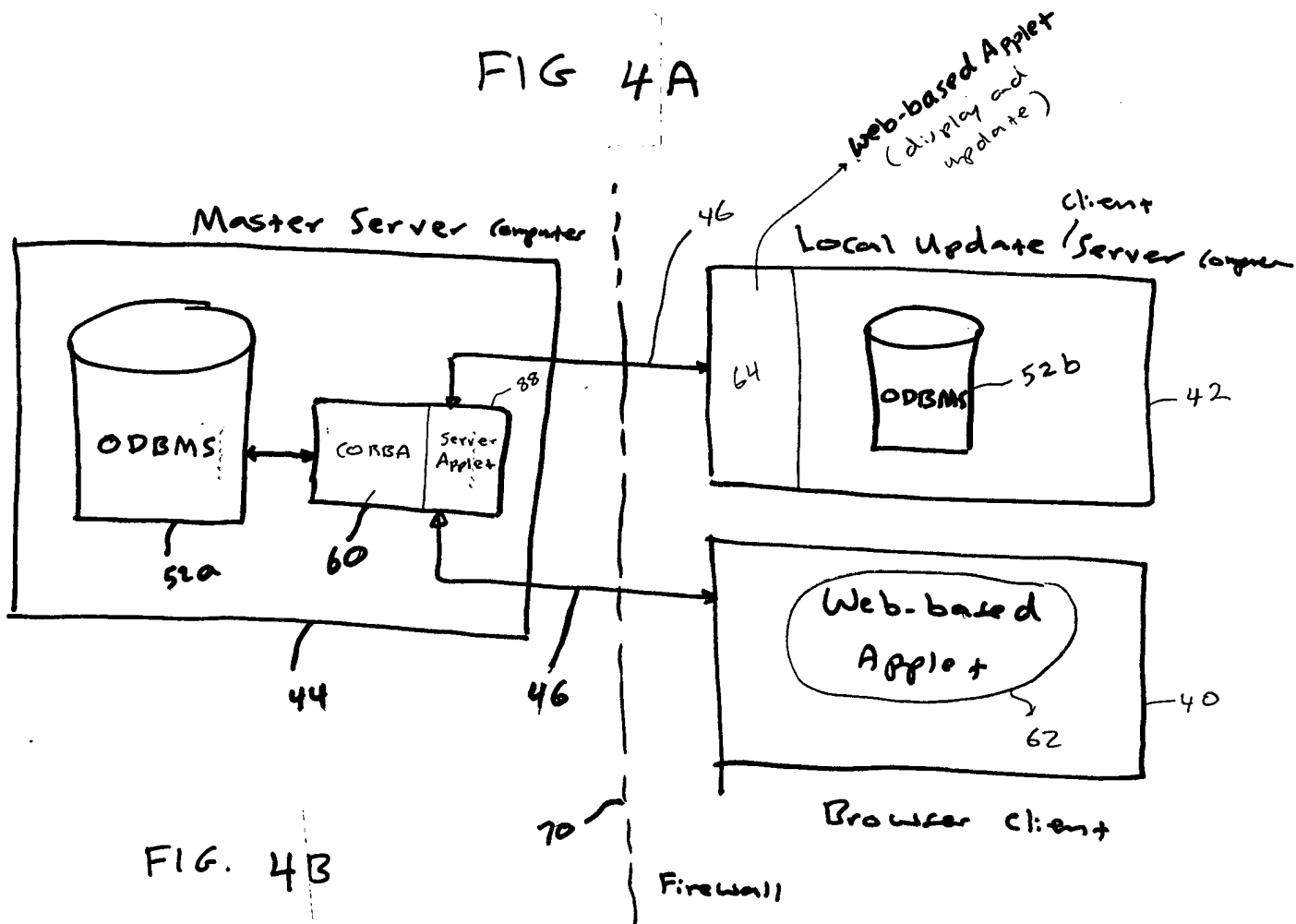


FIG. 4B

09553413-083100

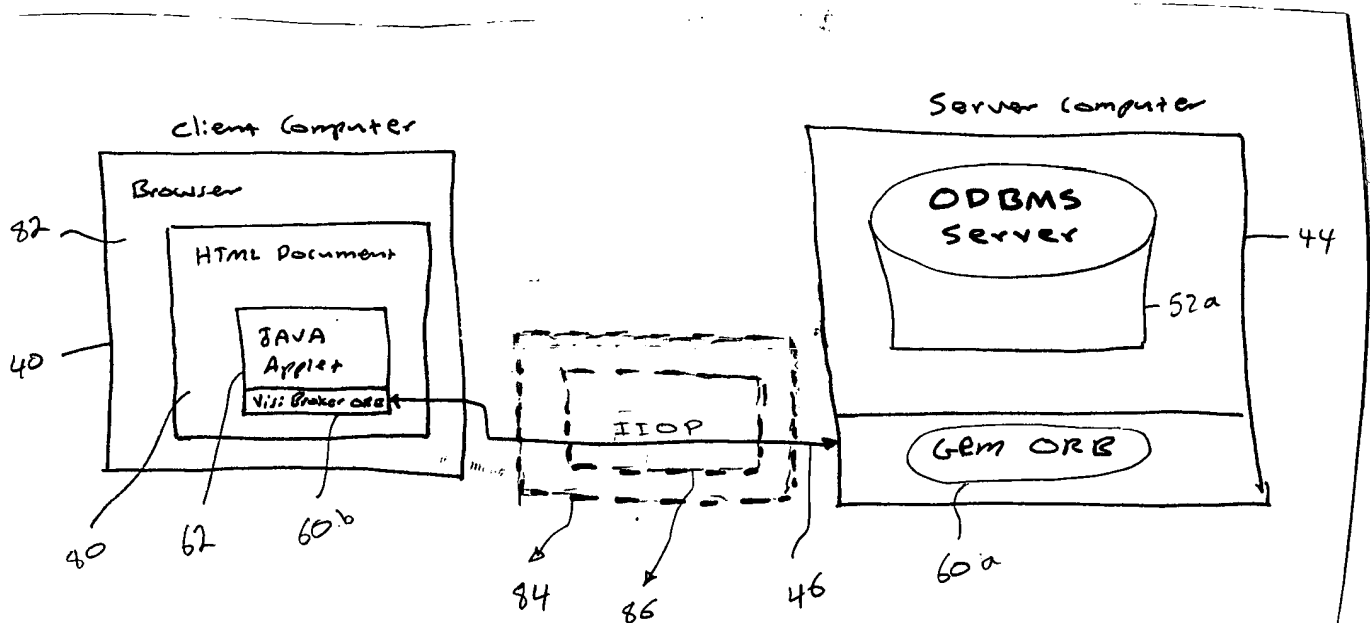
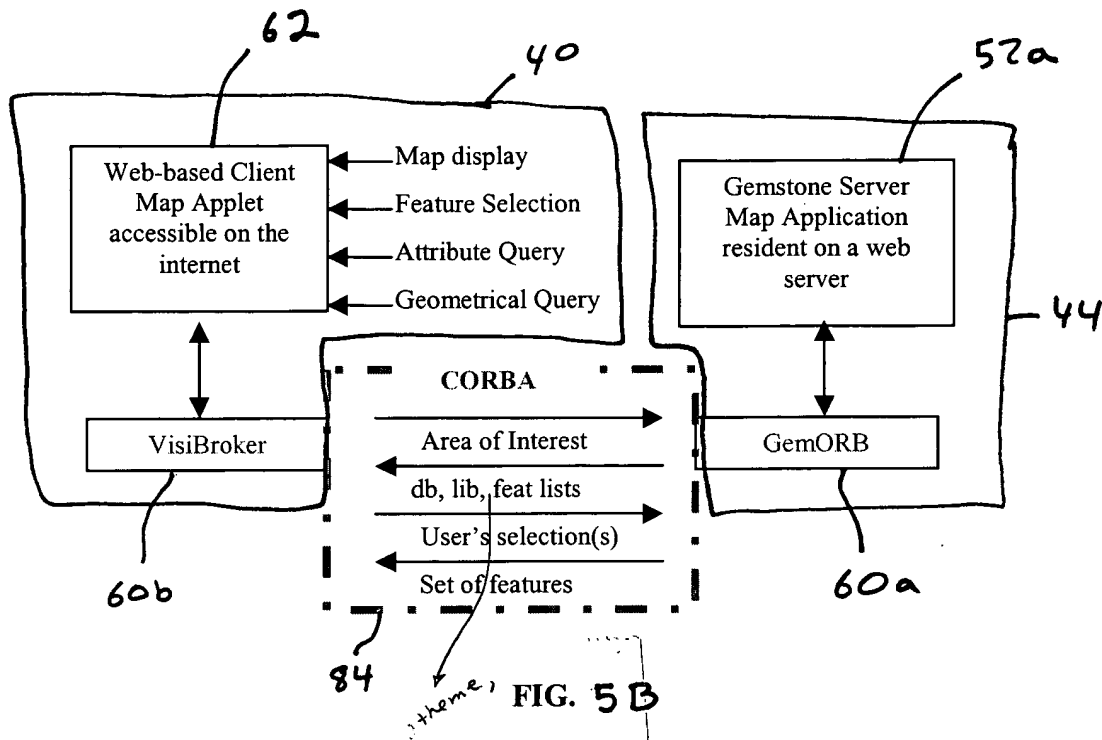


FIG. 5A

095343-08100

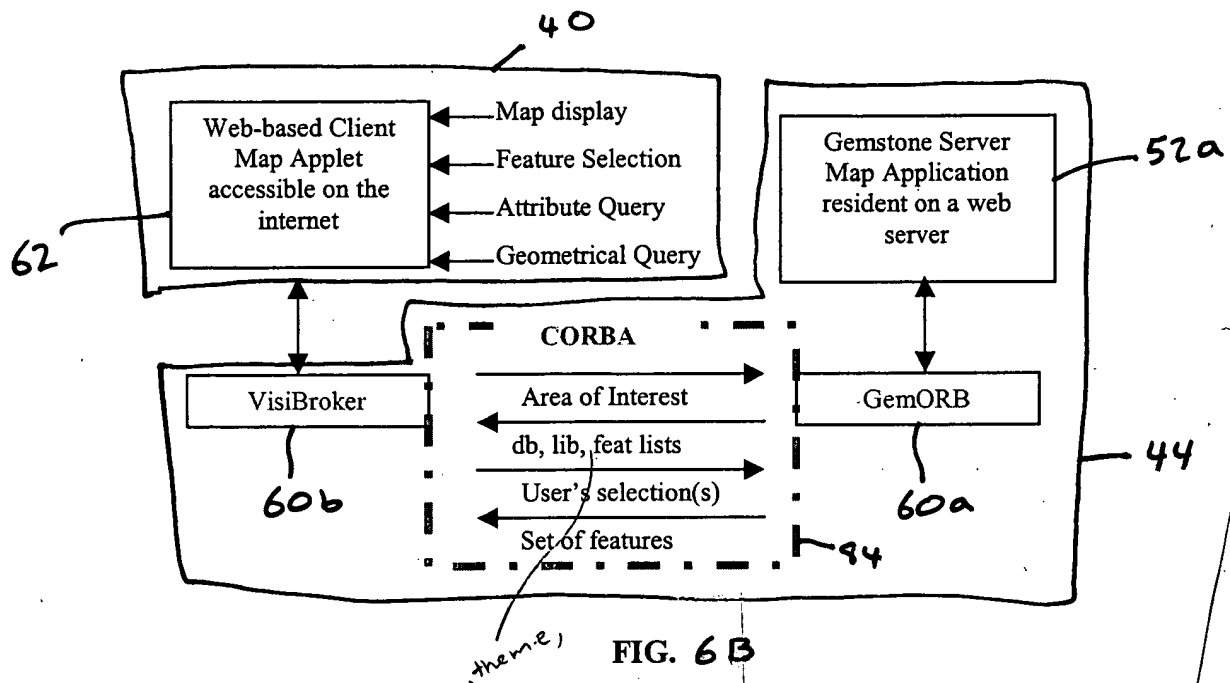


FIG. 6B

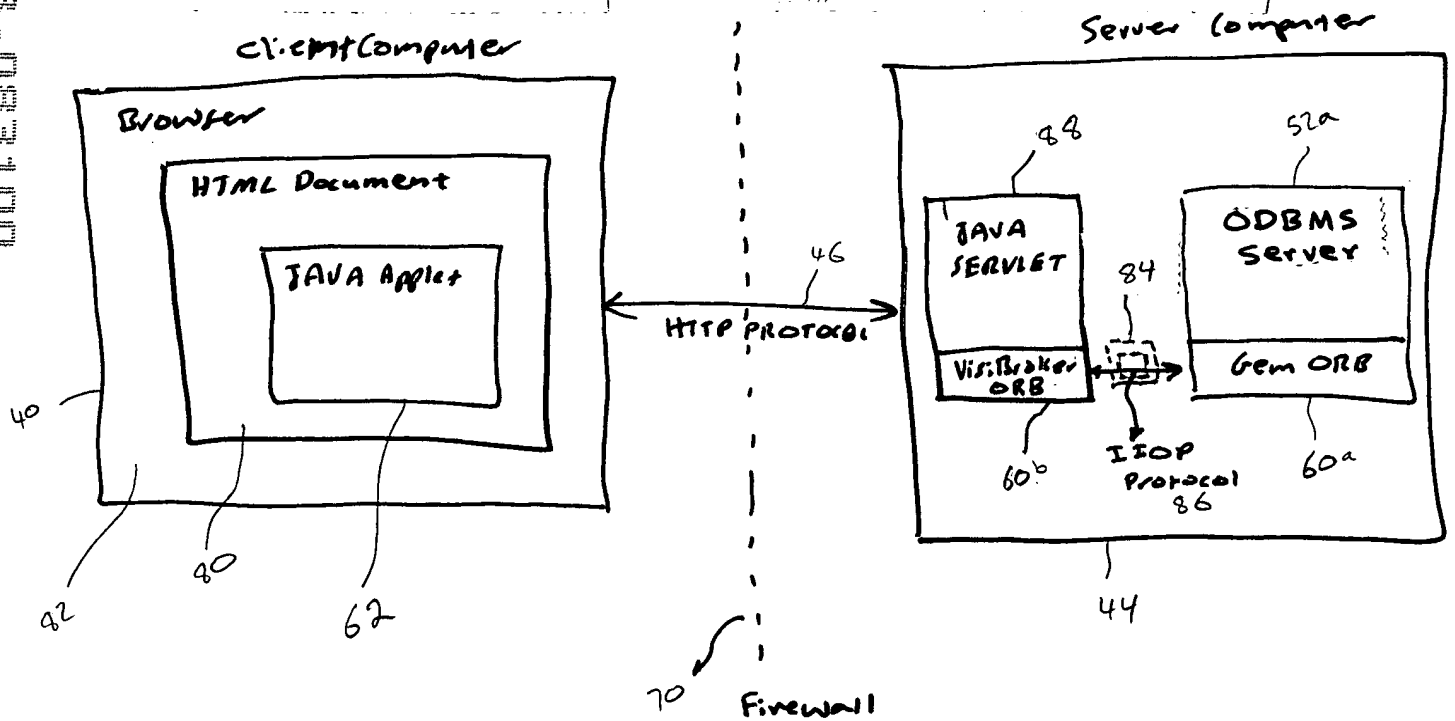
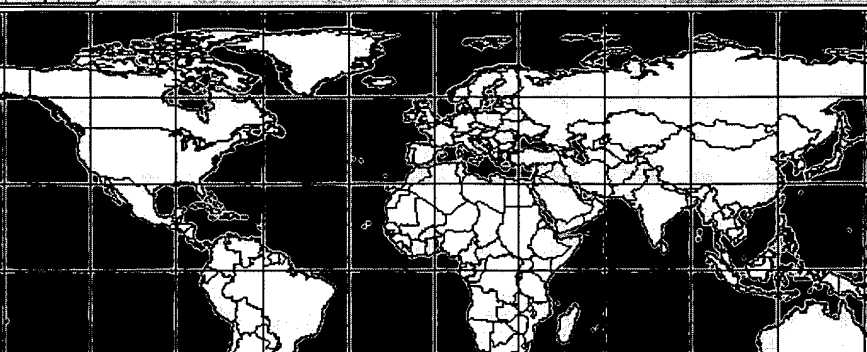


FIG. 6A

NRL Geospatial Information DataBase (GIDB) - Netscape

File Edit View Go Window Help



Center Lon: -77.2496 Lat: 34.666 with a radius of: 0.002 lon/lat degrees

Choose Features By: ☒ NIMA Product ☐ Product Scale

Camp LeJeune MOUT  
Camp Geiger  
Camp Johnson  
Mainside (Industrial)  
South Korea

Submit Coordinates

Map is disabled...Choose a region from the list, or manually enter coordinates.

**FIG. 7**

NRL Geospatial Information DataBase (GIDB) - Netscape

File Edit View Go Communicator Help

Center Lat:  Lon:  with a radius of:  lon/lat degrees

Selected region coordinates are Lat: 0.0 Lon: 0.0 [Show Data Regions](#)

Continent	Country	Region	City
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Pre-Defined AOIs

- Region from DNC01
- Region from DNC11
- Region from DNC15 #1
- Region from DNC15 #2
- Region from DNC17

NIMA Products

- DNC01
- DNC02
- DNC03
- DNC04
- DNC05

Choose Features By:

☐ Product Scale

☒ NIMA Product

[Submit Coordinates](#)

- 9 -



The AOL has center: -77.2496 34.666 with radius: 0.0020 lat/lon degrees.  
Select a database, a library, a coverage, and one or more features to be displayed.

Database	Library	Coverage
VMAPLV2	LEJEUNE	Boundaries
VMAPLV0		Hydrography
DNC17		Industry
UVMOUT		Physiography
FFDPROT2		Population
LWDPROT2		Transportation

**Features From Selected Coverage**

- Buildings Areas[Population:LEJEUNE:UVMOUT] scale = 50000
- Buildings Lines[Population:LEJEUNE:UVMOUT] scale = 50000
- Landmark Points[Population:LEJEUNE:UVMOUT] scale = 50000
- Plaza Areas[Population:LEJEUNE:UVMOUT] scale = 50000

**All Features From All Coverages**

- Buildings Areas[Population:LEJEUNE:UVMOUT] scale = 50000
- Buildings Lines[Population:LEJEUNE:UVMOUT] scale = 50000
- Cart Track Lines[Transportation:LEJEUNE:UVMOUT] scale = 50000
- Fault Lines[Physiography:LEJEUNE:UVMOUT] scale = 50000
- Grassland Areas[Vegetation:LEJEUNE:UVMOUT] scale = 50000
- Ground Areas[Physiography:LEJEUNE:UVMOUT] scale = 50000

**Display Selected Feature(s)**

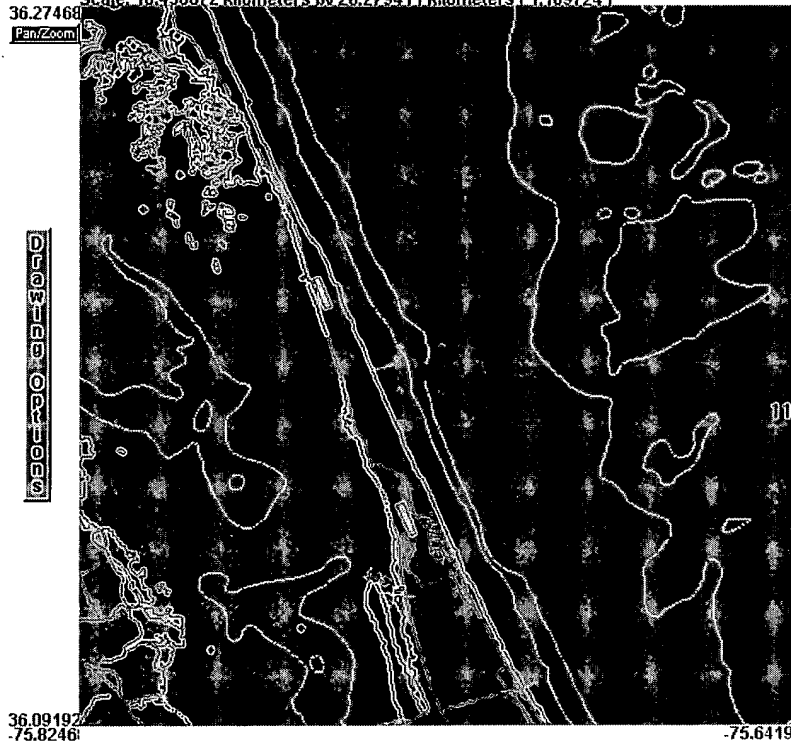
**FIG. 9**

NRL Geospatial Information DataBase (GIDB)

[Online help](#) [Email us with questions or comments](#) [Problems?](#)

[Add Features](#) [Query](#) [Multimedia](#) [Zoom](#) [Preferences](#) [Net Query](#) [Download](#) [Exit/Applet](#) [Create Image](#)

Scale: 16.458672 kilometers by 20.279411 kilometers ( 1:109724 )



Lat:  Lon:

Select a button to perform the given action.

Click in the list below to change a feature's color.

< black >: Island/Water (except inland)/Ground Surface Element[Earth Cover:A17082]

< blue >: Foreshore[Earth Cover:A1708280:DNC17]A: scale = 80000 (0)

< burgundy >: Island[Earth Cover:A1708280:DNC17]P: scale = 80000 (0)

FIG. 10

[illegible]

201	Bottom Characteristics points Hydrography.A17083	
198	Bottom Characteristics points Hydrography.A17083	
200	Bottom Characteristics points Hydrography.A17083	

Secondary Material Characteristics -- Unknown  
Material Composition Category -- Unknown  
Material Composition Underlying -- Unknown  
Underlying Material -- Unknown  
FACC Code -- BF010: US-Bottom Characteristics UK-Quality of the  
Physical Surface Characteristics -- Soft  
Material Composition Secondary -- Unknown

Geometrical	Topological	Clear	Done
Up Selected	Up All	Delete Sel	Delete All

FIG. 11

**Select Time Range**

	Year:	Month:	Day:	Hour:
Start Time:	1980	January	01	00
	1981	February	02	01
	1982	March	03	02
	1983	April	04	03
	1984	May	05	04
	1985	June	06	05
End Time:	1995	January	01	00
	1996	February	02	01
	1997	March	03	02
	1998	April	04	03
	1999	May	05	04
	2000	June	06	05

Unsigned Java Applet Window

FIG. 12

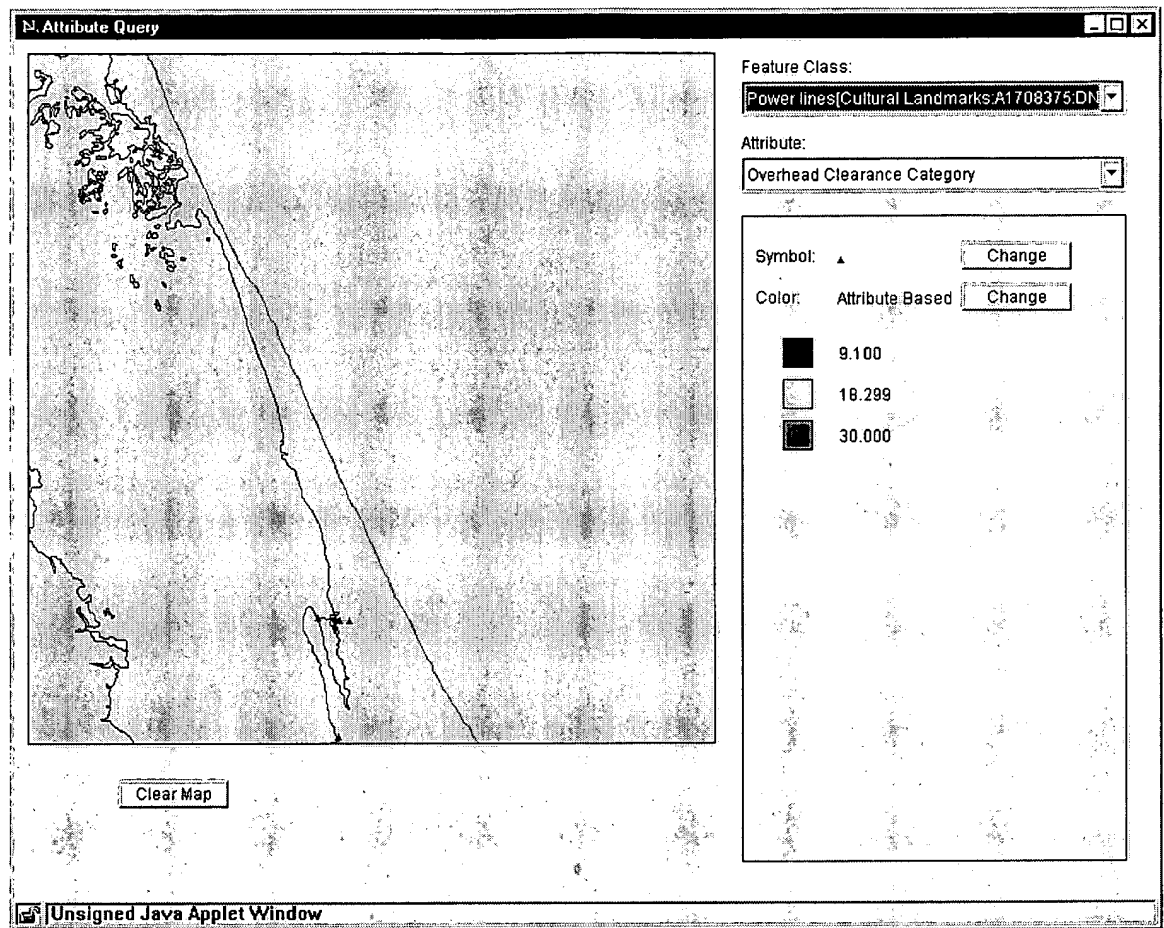


FIG. 13

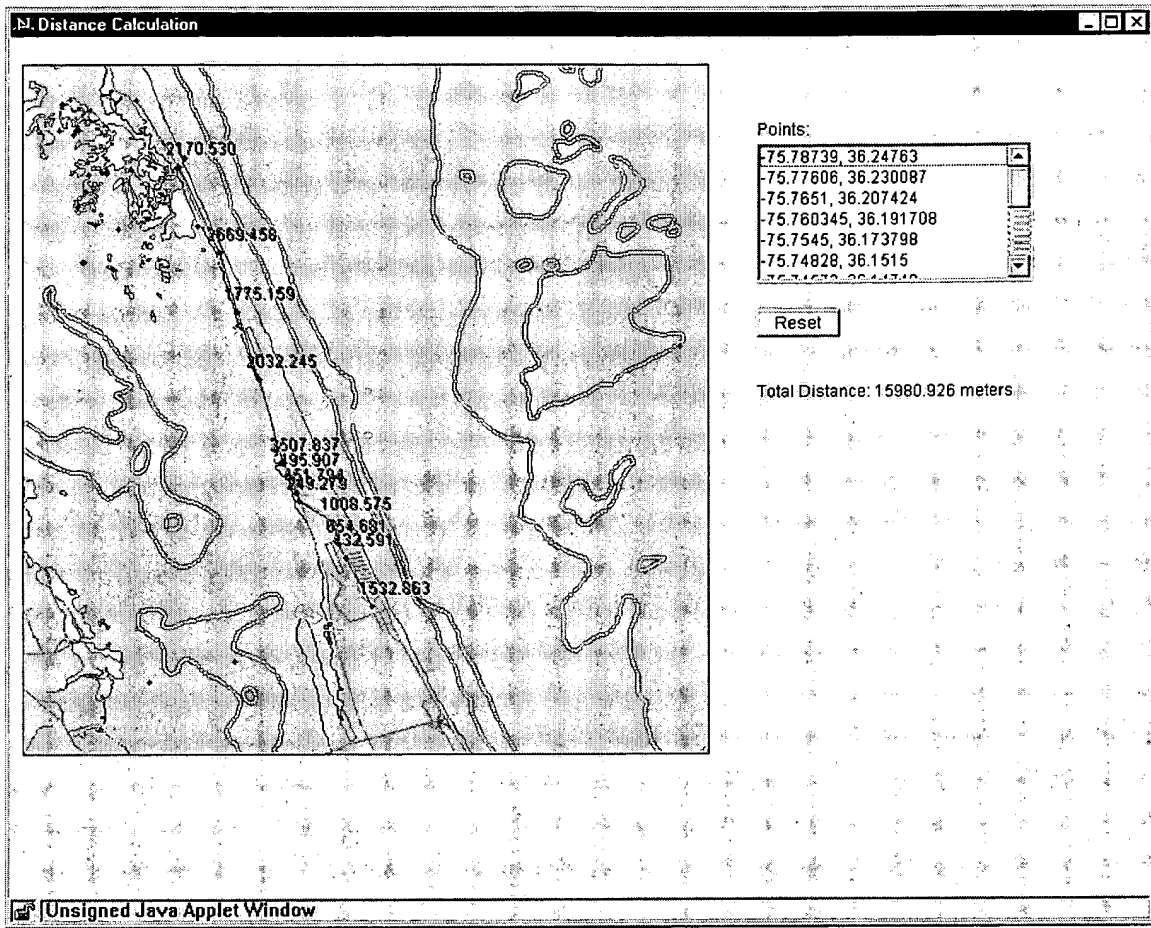


FIG. 14

```

GeoPoint gpPoint1 = (GeoPoint)vtrGeopoints.elementAt(i);
GeoPoint gpPoint2 = (GeoPoint)vtrGeopoints.elementAt(i+1);
double distance = gpPoint1.greatCircleDistance(gpPoint2) * 6000 * 0.3048; // returns nautical miles.
                                     multiply by 6000 for feet. multiply by 0.3048 to get meters.

```

```

public class GeoPoint{
.
.
.

public double greatCircleDistance(GeoPoint point2) {
    double nauticalMiles = 0.0f;
    double step1;
    double degreesPerRadian = 180.0 / Math.PI;
    double nauticalMilesPerDegree = 60.0;
    double lat1 = latInRadians();
    double lon1 = lonInRadians();
    double lat2 = point2.latInRadians();
    double lon2 = point2.lonInRadians();

    // Calculate step 1 in radians
    step1 = Math.acos(Math.sin(lat1) * Math.sin(lat2) +
        Math.cos(lat1) * Math.cos(lat2) * Math.cos(lon1 - lon2));

    nauticalMiles = step1 * degreesPerRadian * nauticalMilesPerDegree;
    return nauticalMiles;
}

.
.
.
}

```

FIG. 14A

<div> <div> Multimedia </div> <div> Zoom </div> <div> Preferences </div> </div>	
30 sec Topographic	
Bird Migratory Routes	
Coastal Relief Model	
Coastal Research Amphibious Buggy at FRF	
Field Research Facility Area	
Main Laboratory at Field Research Facility	
NGDC 5 min elevation and bathy merge	
NGDC Sediment Data	
NGDC Topographic, 5 min	
NOAA Navigation Buoys	
NOAA Oceanographic Buoys	
NOAA Oceanographic Buoys, 400km	
NOS Coastal Surveys, 15 sec	
NOS Coastal Surveys, 3 sec	
Pier at Field Research Facility	
Political/County Boundaries	
Political/State Boundaries	
Satellite overview with shoreline	
Shoreline overlay with satellite imagery	
TOPEX/ERS Sea Surface Temp	
Tower at Field Research Facility	
USGS Primary Roads	
USGS Railroads	
USGS Topographic, 30 sec	
hsugrid.jpg	
hsupts.jpg	
nagravty.jpg	
video clips	

FIG. 15



00553413-083100

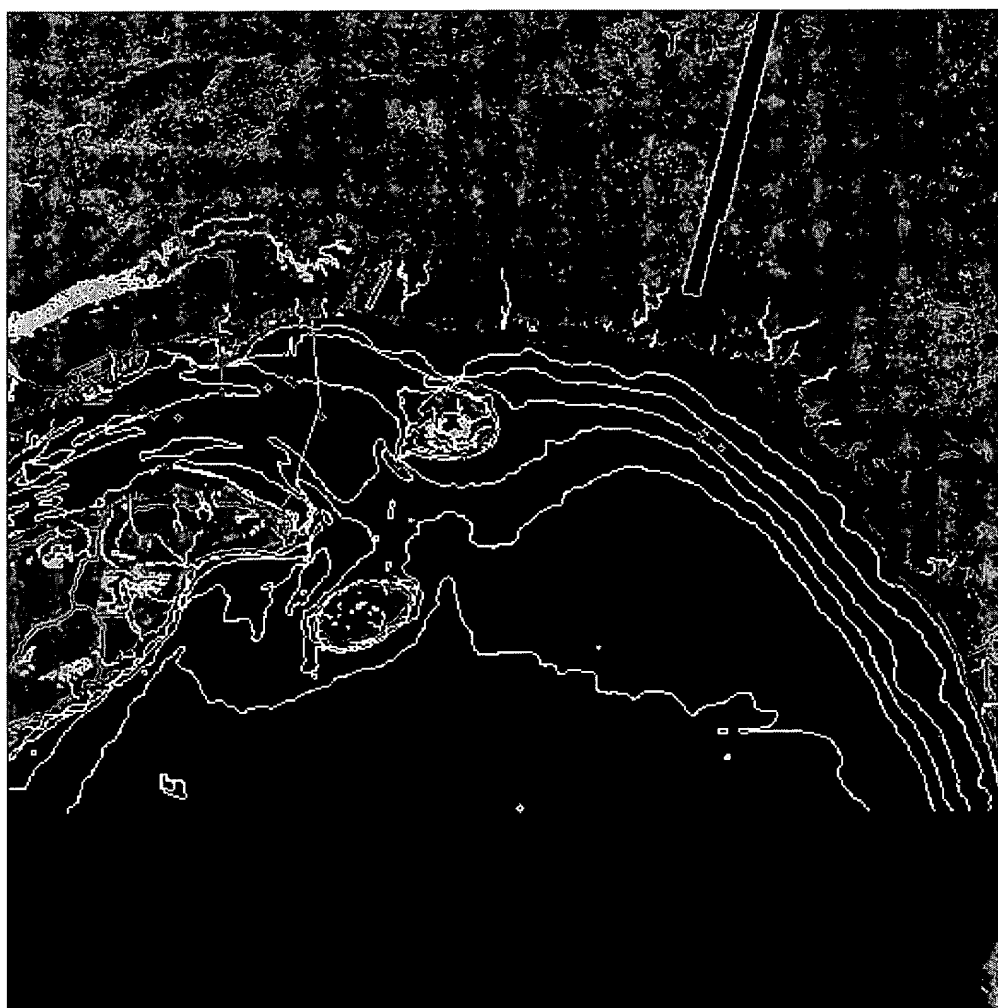
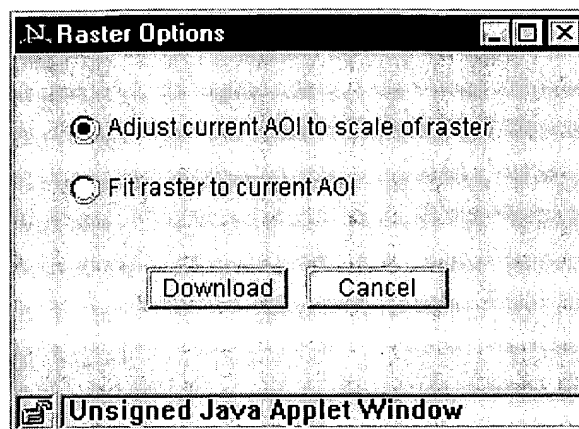


FIG. 16

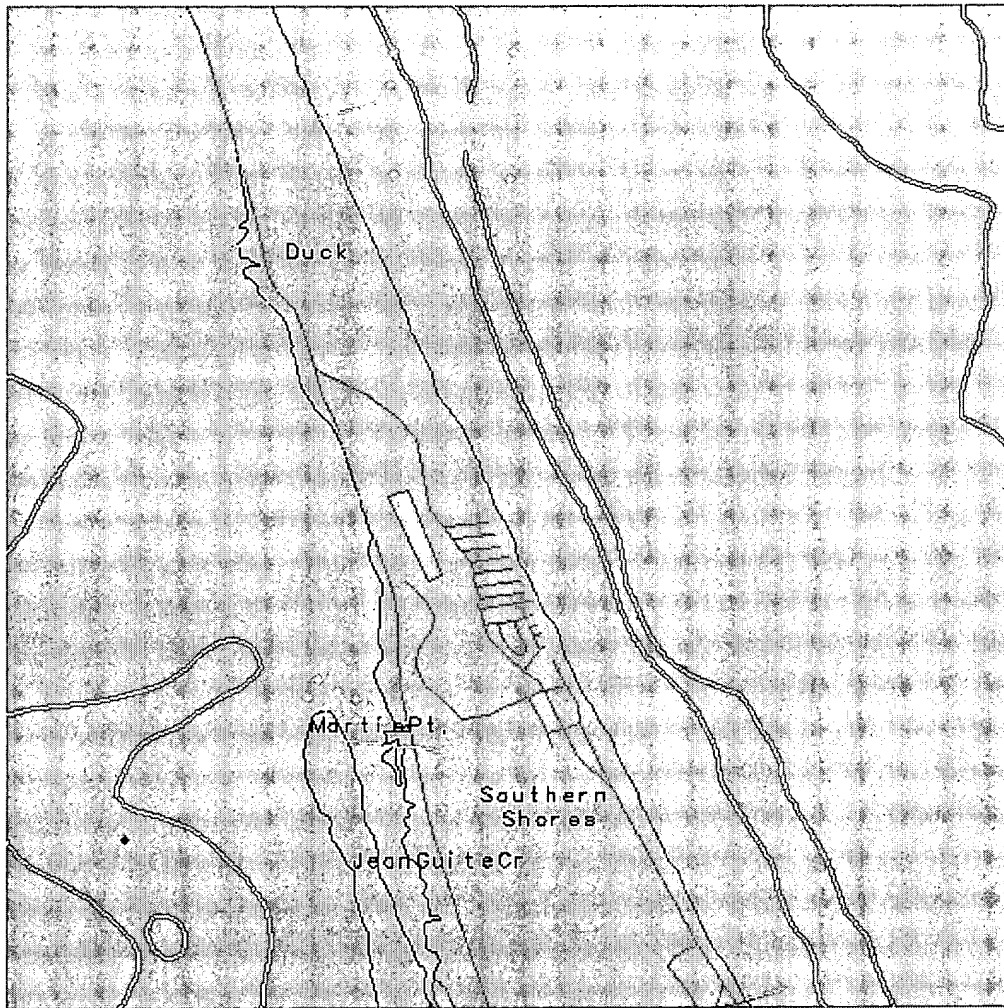


FIG. 17



**Drawing Options**

Draw Order:	Feature Class:	On/Off:	Type Option:	Color:
8	River lines[Inland Waterways:A1708375.DNC17]L: scale =	<input type="checkbox"/> Draw	1 Line Width	
9	Bridge lines[Obstructions:A1708375.DNC17]L: scale = 800	<input checked="" type="checkbox"/> Draw	1 Line Width	
10	Pier lines[Port Facilities:A1708375.DNC17]L: scale = 8000	<input checked="" type="checkbox"/> Draw	3 Line Width	
11	Structure lines[Port Facilities:A1708375.DNC17]L: scale =	<input type="checkbox"/> Draw	1 Line Width	
12	Island points[Earth Cover:A1708375.DNC17]P: scale = 800	<input checked="" type="checkbox"/> Draw		
13	Foreshore points[Earth Cover:A1708375.DNC17]P: scale =	<input type="checkbox"/> Draw		
14	Hazard points[Obstructions:A1708375.DNC17]P: scale = 8	<input checked="" type="checkbox"/> Draw		

Unsigned Java Applet Window

**FIG. 18B**

001630" 674E5950

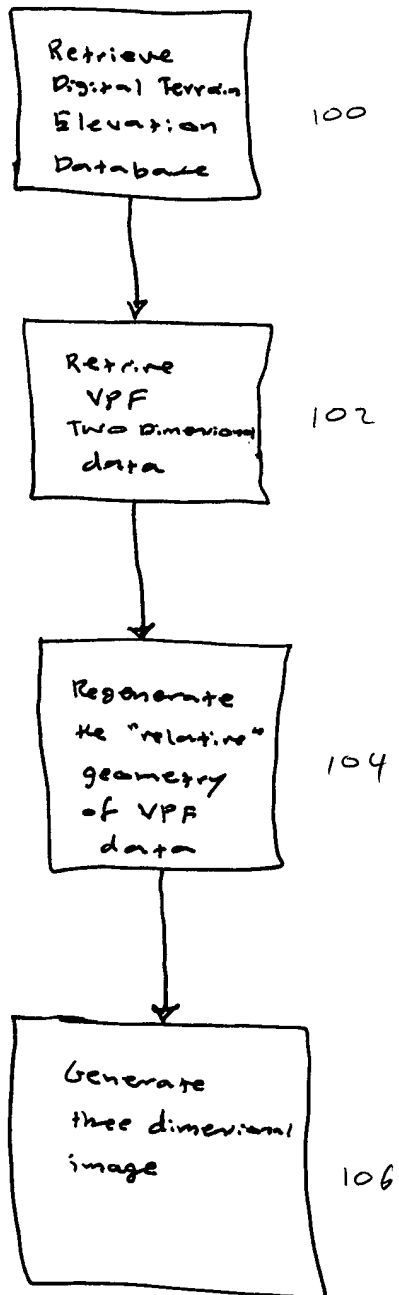


FIG. 19

VRMLObject  
 VRMLAreaFeature  
   VRMLBuilding  
   VRMLHydroArea  
   VRMLVegArea  
 VRMLLineFeature  
   VRMLBarrierLine  
   VRMLHydroLine  
   VRMLTransLine  
   VRMLUtilityLine  
 VRMLPointFeature

FIG. 20

**Structure Shape of Roof**  
 Flat  
   ssr = 41  
 Pitched  
   ssr = 42

FIG. 21

VPF	VRML
#bldpopa	#VRMLBuilding
#bldinda	#VRMLBuilding
#plazaa	#VRMLPlazaArea
#lakeresa	#VRMLHydroArea
#inshorel	#VRMLHydroLine
#watcrsl	#VRMLHydroLine
#roadl	#VRMLTransLine
#trackl	#VRMLTransLine
#barrierl	#VRMLBarrierLine
#polbndl	#VRMLBarrierLine
#telel	#VRMLUtilityLine
#obstrp	#VRMLPointFeature
#landmrkp	#VRMLPointFeature

FIG. 22

```

LOD {
  level [
    Inline {url "FireHydrant1.wrl"}
    Inline {url "FireHydrant2.wrl"}
    Group {children [ ]}
  ]
  range [ 100, 200 ]
  center 0 0 0
}

```

FIG. 23

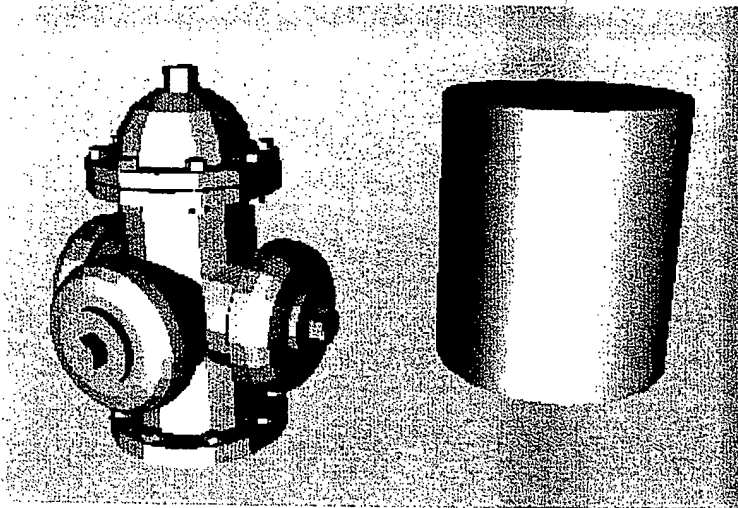


FIG. 24

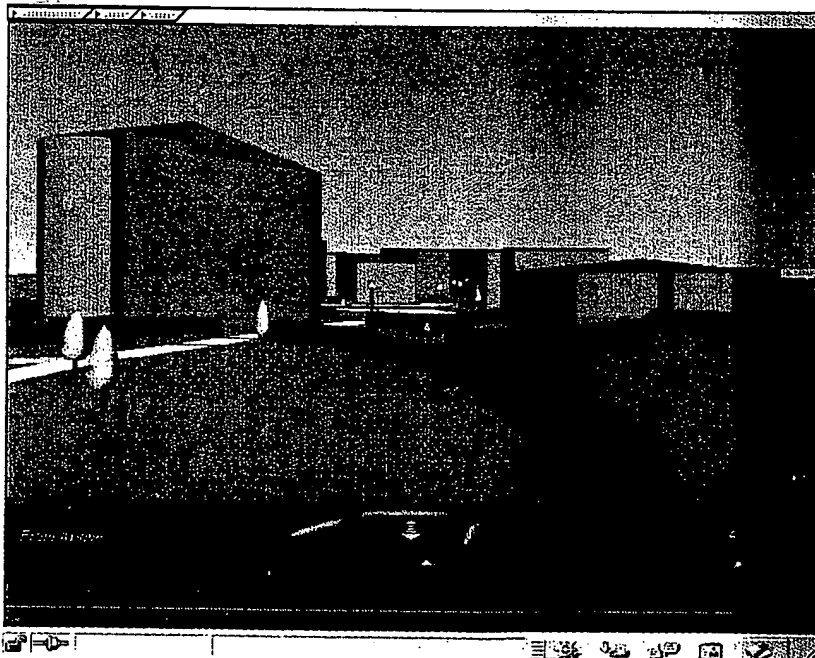


FIG. 25





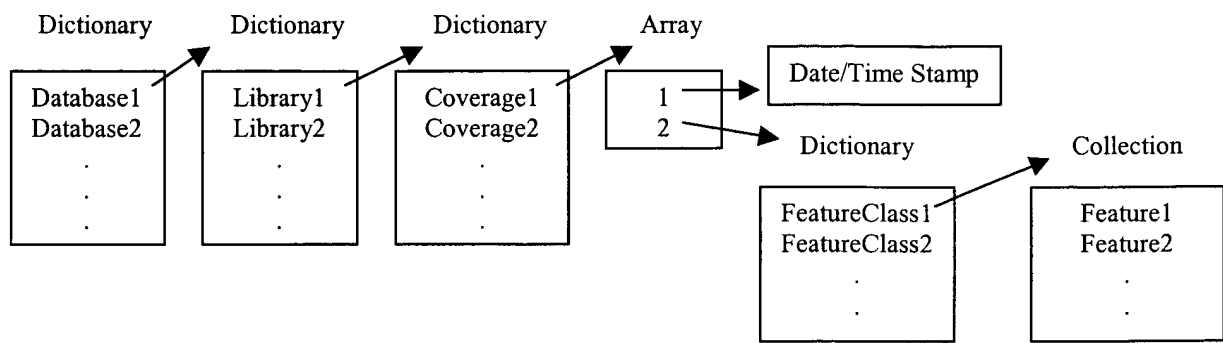
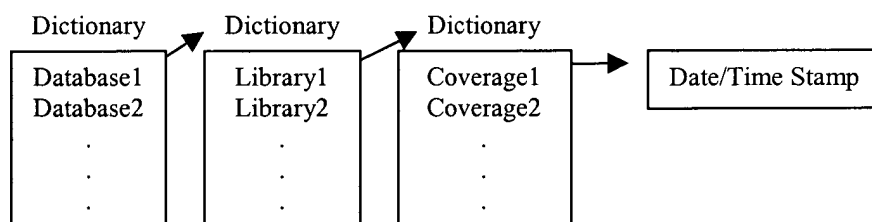
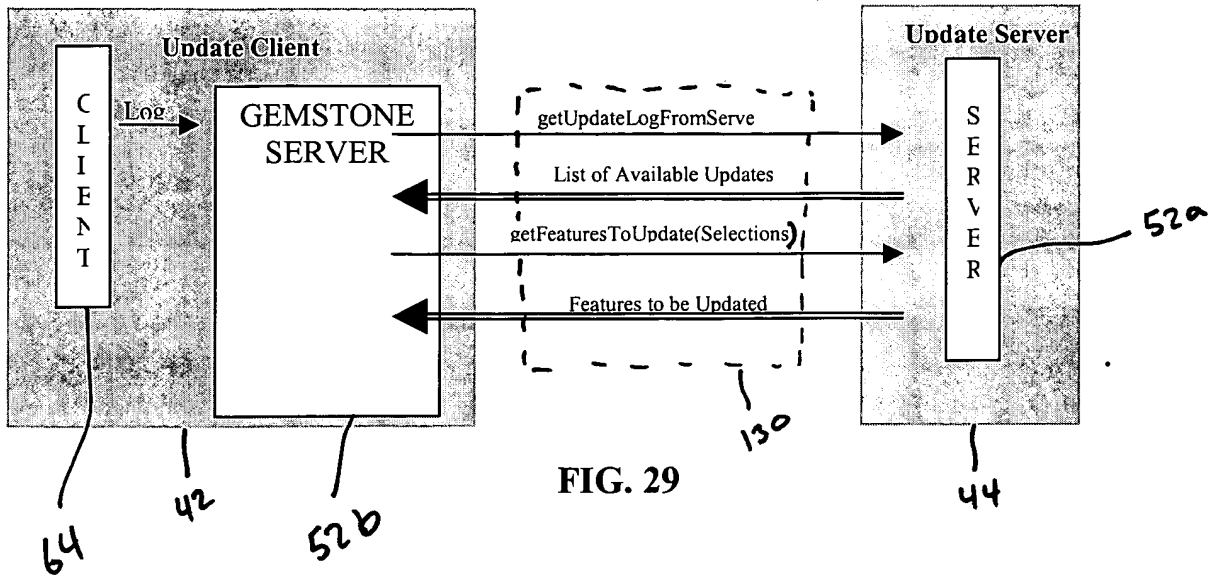


FIG. 27



**FIG. 28**

007630" 6746960



095343-083100

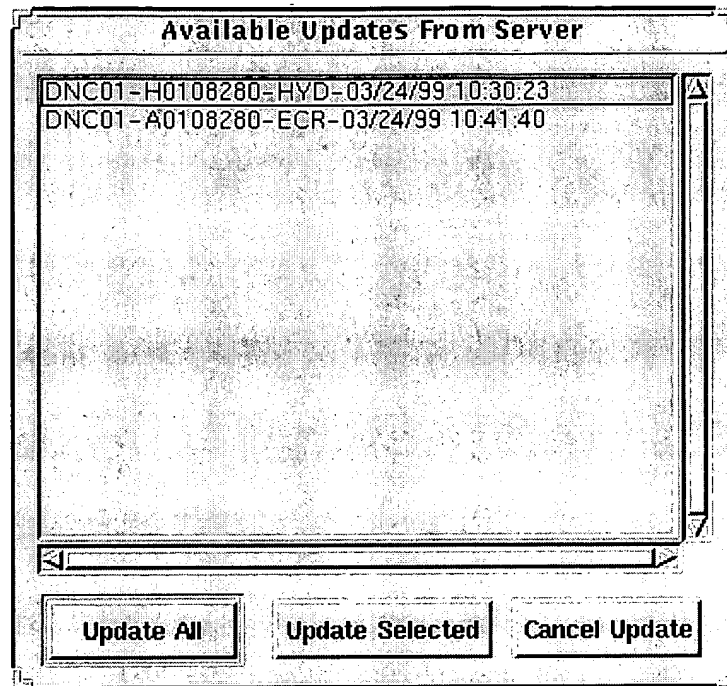


FIG. 30